IA-1066

USA, Canada, AEP and UK Model



EGRATED STEREO AMP

SPECIFICATIONS

POWER AMPLIFIER SECTION

Continuous RMS

power output: (rated output) (less than 0.8 % THD)

At 1 kHz

20 watts (8 ohms), 26 watts (4 ohms)

one channel driven separately 18 watts (8 ohms) per channel, 22 watts (4 ohms) per channel, both channels driven simultaneously

Dynamic power output: (IHF constant power

50 watts (8 ohms) 75 watts (4 ohms)

supply method)

Power bandwidth:

10 Hz to 40 kHz (8 ohms, IHF)

Harmonic distortion:

Less than 0.8 % at rated output

IM distortion: (60 Hz: 7 kHz = 4: 1) Less than 0.8 % at rated output

PREAMPLIFIER SECTION

Frequency response:

PHONO

RIAA equalization

TUNER

TAPE-1, TAPE-2 REC/PB (input)

curve ± 1 dB

20 Hz to 60 kHz ±3dB

Input sensitivity

and impedance:

PHONO TUNER

2.5 mV, 50 k ohms

AUX TAPE-1, TAPE-2 REC/PB (input)

250 mV, 50 k ohms

Signal output and

REC OUT output impedance:

REC/PB (output)

250 mV, 10 k ohms 30 mV, 82 k ohms

GENERAL

Power requirements:

120 voits ac (USA and Canada Model)

110, 127, 220, 240 volts ac (AEP and UK Model)

Power consumption:

55 watts (USA Model) 80 watts (Canada Model) 140 watts (AEP and UK Model)

Dimensions:

410 (w) x 120 (h) x 280 (d) mm

 $16\frac{1}{8}$ (w) x $4\frac{11}{16}$ (h) x $11\frac{1}{16}$ (d) inches

6.0 kg (13 lb 4 oz) Net weight:



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SECTION 1

TECHNICAL DESCRIPTION

1-1. SPECIFICATIONS

Power Amplifier Section

Continuous RMS

power output:

At 1 kHz

(rated output) (less than 0.8 % 20 watts (8 ohms),

THD)

26 watts (4 ohms), one channel driven separately

18 watts per channel (8 ohms), 22 watts per channel (4 ohms), both channels driven simultane-

ously

At 40 Hz to 20 kHz

15 watts per channel (8 ohms), both channels driven simultane-

ously

Dynamic power

output:

50 watts (8 ohms)

(IHF constant power supply

method)

75 watts (4 ohms)

Power bandwidth:

10 Hz to 40 kHz (8 ohms, IHF)

Harmonic

distortion:

Less than 0.8 % at rated output

Less than 0.2 % at 1 watt output

IM distortion: (60 Hz: 7 kHz

Less than 0.8 % at rated output Less than 0.2 % at 1 watt output

= 4:1)

Damping factor:

Greater than 22 (8 ohms)

Residual noise:

Less than 0.25 μ watt (8 ohms)

Preamplifier Section

Frequency response:

PHONO	RIAA equalization curve ± 1 dB
TUNER AUX TAPE-1, -2 REC/PB (input)	20 Hz to 60 kHz ± 3 dB

Input sensitivity and impedance:

	Maximum sensitivity	Impedance
PHONO	2.5 mV	50 k ohms
TUNER AUX TAPE-1,-2 REC/PB (input)	250 mV	50 k ohms

Measured with specified RMS power output provided into 8-ohm loads (both channels driven simultaneously) at 1 kHz.

Signal output and impedance:

	Level	Impedance	Input level
REC OUT 1 · 2	250 mV	10 k ohms	PHONO 2.5 mV
REC/PB (output)	30 mV	82 k ohms	TUNER AUX TAPE 1 · 2 250 mV REC/PB (input)

Signal-to-noise ratio:

	S/N	Weighting network	Input level
PHONO	70 dB	В	2.5 mV
TUNER AUX TAPE 1 ·2 REC/PB (input)	90 dB	A	250 mV

Tone controls:

BASS

± 10 dB at 100 Hz

TREBLE ± 10 dB at 10 kHz

High filters:

6 dB/octave above 5 kHz

Loudness control:

+ 10 dB at 50 Hz, + 3.5 dB at

10 kHz (at 30 dB attenuation)

General

Circuit system:

Quasi-complementary symmetry

circuit (SEPP OTL) Direct output coupling

Semiconductors:

22 transistors and 6 diodes

Power

requirements:

120 V ac (USA and Canada Model)

110, 127, 220, 240 V ac (AEP and UK Model)

Power

consumption:

55 watts (USA Model) 80 watts (Canada Model)

140 watts (AEP and UK Model)

Ac outlets:

1 unswitched, 300 watts maximum

(USA and Canada Model only)

Dimensions:

410 (w) x 120 (h) x 280 (d) mm

 $16\frac{1}{8}$ (w) x $4\frac{1}{16}$ (h) x $11\frac{1}{16}$ (d)

inches

Net weight:

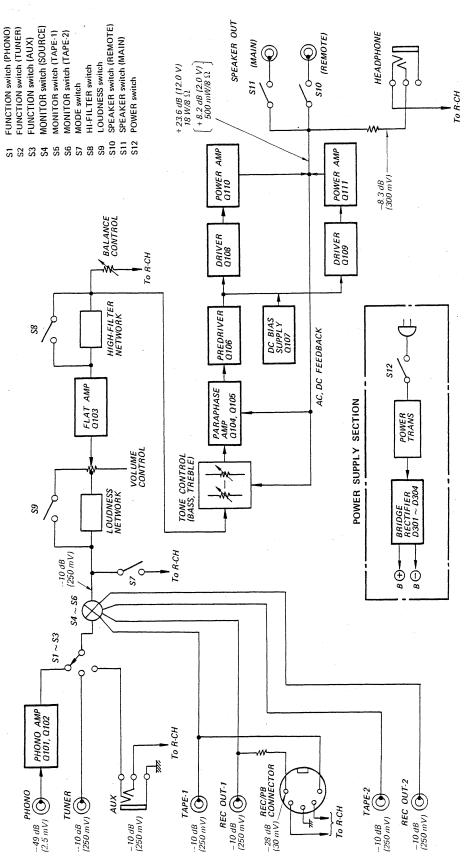
6.0 kg (13 lb 4 oz)

Shipping weight:

7.3 kg (16 lb 2 oz)



1-2. BLOCK DIAGRAM/LEVEL DIAGRAM



Note: Signal voltages are measured with ac VTVM and expressed in dB referred to 0.775 V, 1 kHz.



SECTION 2

DISASSEMBLY AND REPLACEMENT

Note: All screws in this service manual are Phillips type (cross recess type) unless otherwise indicated. (-): slotted head.

2-1. BOTTOM PLATE REMOVAL

1. Remove the seven screws shown in Fig. 2-1.

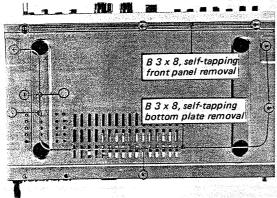


Fig. 2-1. Bottom view

2-2. FRONT PANEL REMOVAL

- 1. Remove the two screws at both sides of the wooden case.
- 2. Pull off the TONE, BALANCE and VOLUME control knobs.
- 3. Remove the six screws from the front top and bottom of the front panel as shown in Fig. 2-1 and 2-2.
- 4. This frees the front panel with pushbutton.

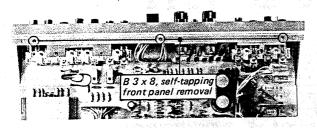


Fig. 2-2. Front panel removal

2-3. FRONT SUBCHASSIS REMOVAL

- 1. Remove the front panel by following the Procedure 2-2.
- 2. Remove the two screws at each side of the front subchassis as shown in Fig. 2-3.
- 3. Remove the three screws shown in Fig. 2-3.
- 4. Remove the two screws (B 3 x 4) securing the POWER switch.
- 5. Remove the two hex nuts securing the TONE controls.
- 6. This frees the front subchassis.

2-4. PUSHBUTTON SWITCH REPLACEMENT

- 1. Remove the front subchassis by following the Procedure 2-3.
- 2. With a soldering iron having a soldersucking tip, clean the solder from each lug of the switches and printed circuit board.
- 3. Install a new one.

2-5. NYLON RIVET REMOVAL

- 1. To remove the nylon rivet, push its end with a tweezers as shown in Fig. 2-4.
- 2. To reinstall the rivet, insert the flared part into the opening first, then push its head as far as it will go.

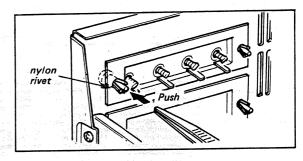


Fig. 2-4. Nylon rivet removal

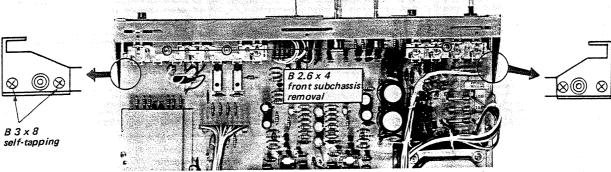
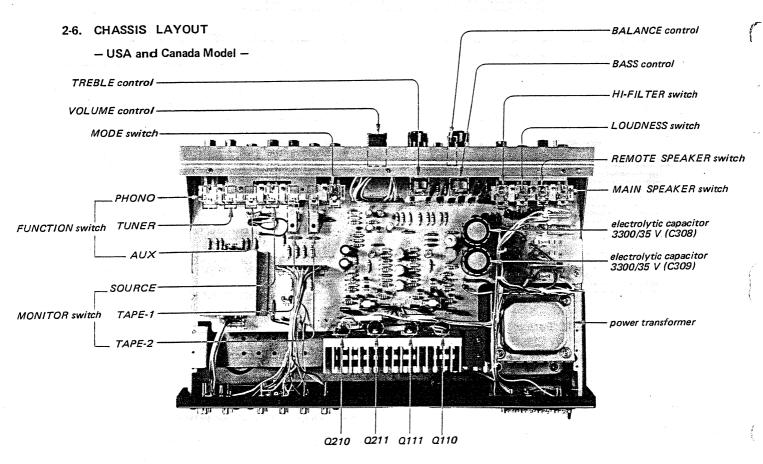
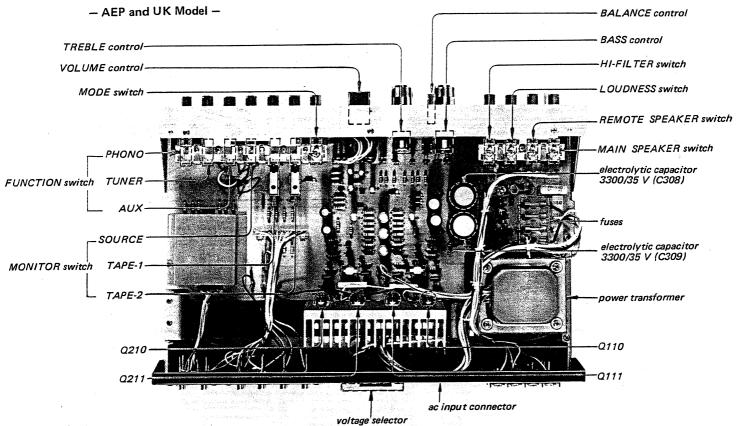


Fig. 2-3. Front subchassis removal









SECTION 3 ADJUSTMENT

3-1. DC-BIAS ADJUSTMENT

Note: This adjustment should be done after replacing any of the power transistors. To avoid accidental power transistor damage, increase the ac line voltage gradually, using a variable transformer, while measuring the voltage across the test point and the MAIN speaker terminal as shown in Fig. 3-1.

Test Equipment Required

- Dc millivoltmeter
 Capable of measuring dc voltage of 100 mV or less
- 2. Variable transformer
- 3. Screwdriver with 3 mm (1/8") blade

Preparation

1. Remove the wooden case.

- 2. Connect the dc voltmeter across the MAIN speaker terminal and the test point as shown in Fig. 3-1.
- 3. Depress the MAIN speaker switch button.
- 4. Set the variable transformer for minimum output.
- 5. Apply a drop of cement solvent to the adjustable resistors RT101, RT201 (See Fig. 3-1) on the circuit board.

Procedure

1. Turn the power switch ON and increase the line voltage to the rated value.

Note: Check to see that the reading does not exceed 25 mV. If it does, turn off the power immediately, then check and repair the trouble in the power amplifier section.

2. Adjust RT101 (RT201) for 25 mV reading on the meter.

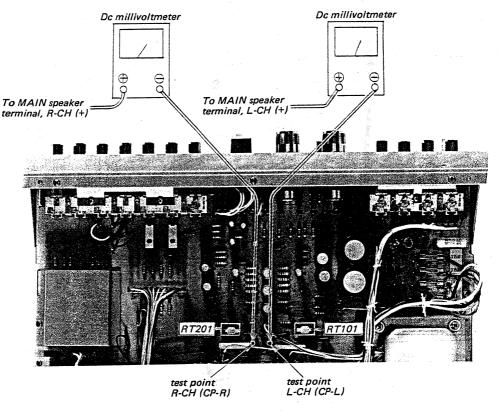


Fig. 3-1. Dc millivoltmeter connection and parts location

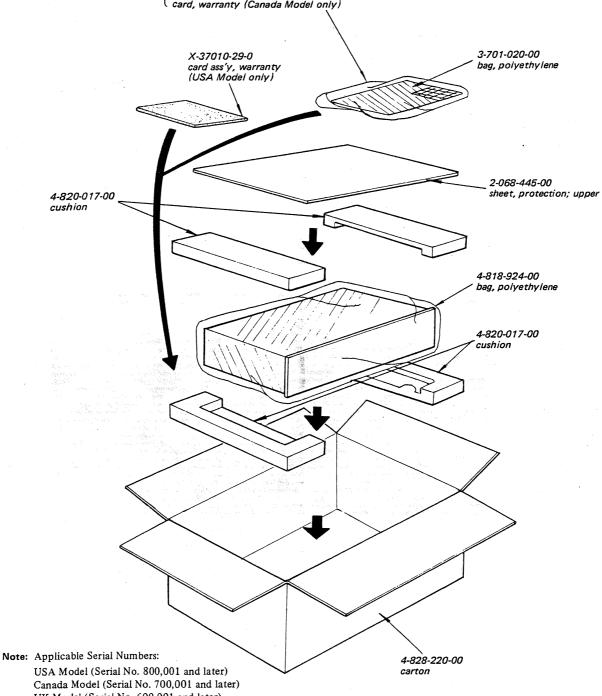


SECTION 4 REPACKING

The TA-1066's original shipping carton and packing materials are the ideal containers for shipping the unit. However to secure the maximum protection,

the TA-1066 must be repacked in these materials precisely as before. The proper repacking procedures are shown in Fig. 4-1.

3-780-186-11 (Canada and AEP Model) 3-780-186-21 (USA Model) 3-780-186-81 (UK Model) 3-793-520-00 card, guaranty (UK Model only) 3-793-647-00 manual, instruction diagram, schematic 3-793-105-00 1-534-819-00 list, warranty station (Canada Model only) cord, power (UK Model only) 3-793-107-00 card, warranty (Canada Model only)



USA Model (Serial No. 800,001 and later) Canada Model (Serial No. 700,001 and later) UK Model (Serial No. 600,001 and later) AEP Model (Serial No. 500,001 and later)

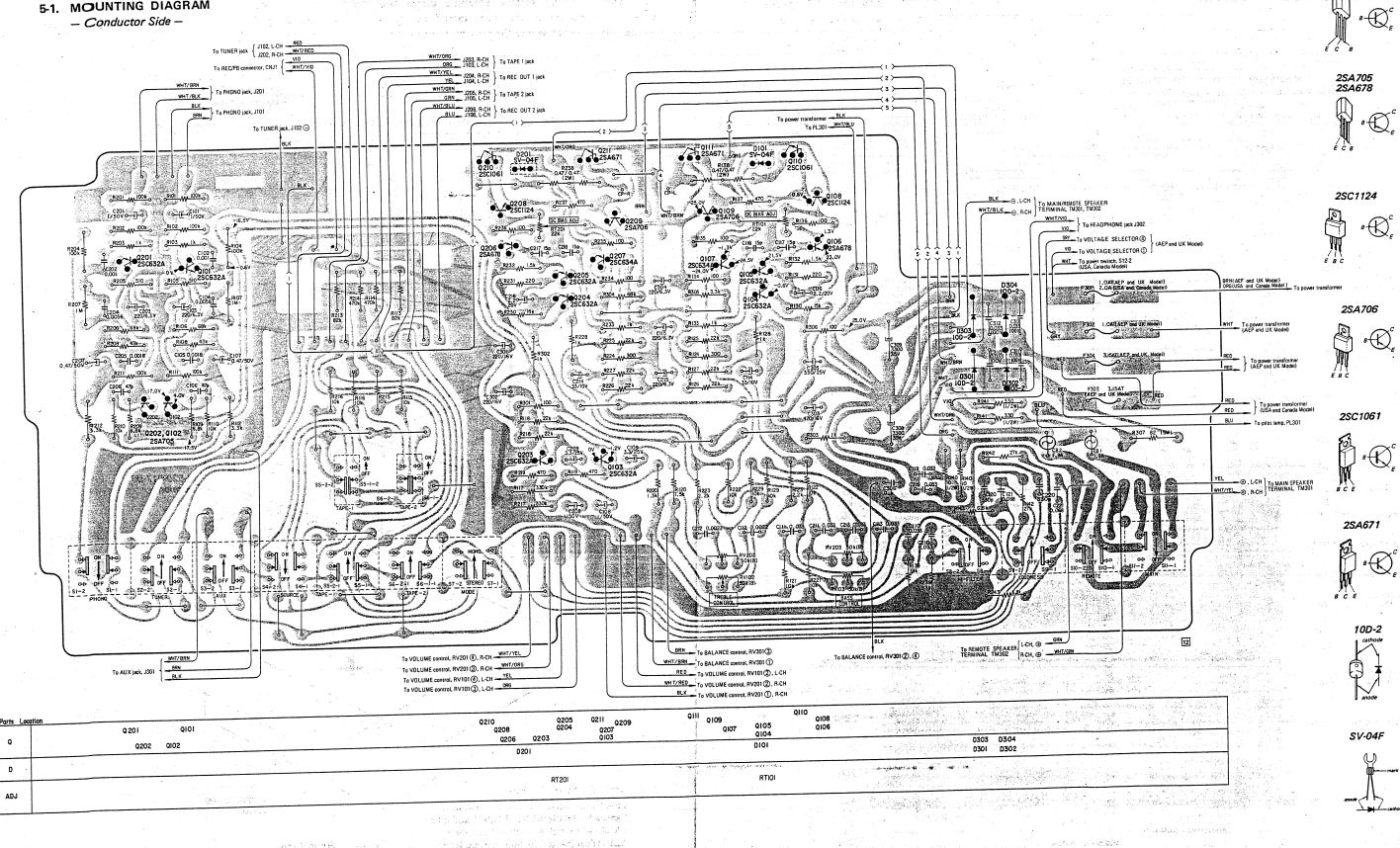
Fig. 4-1. Repacking

TA-1066 TA-1066

SECTION 5 DIAGRAMS

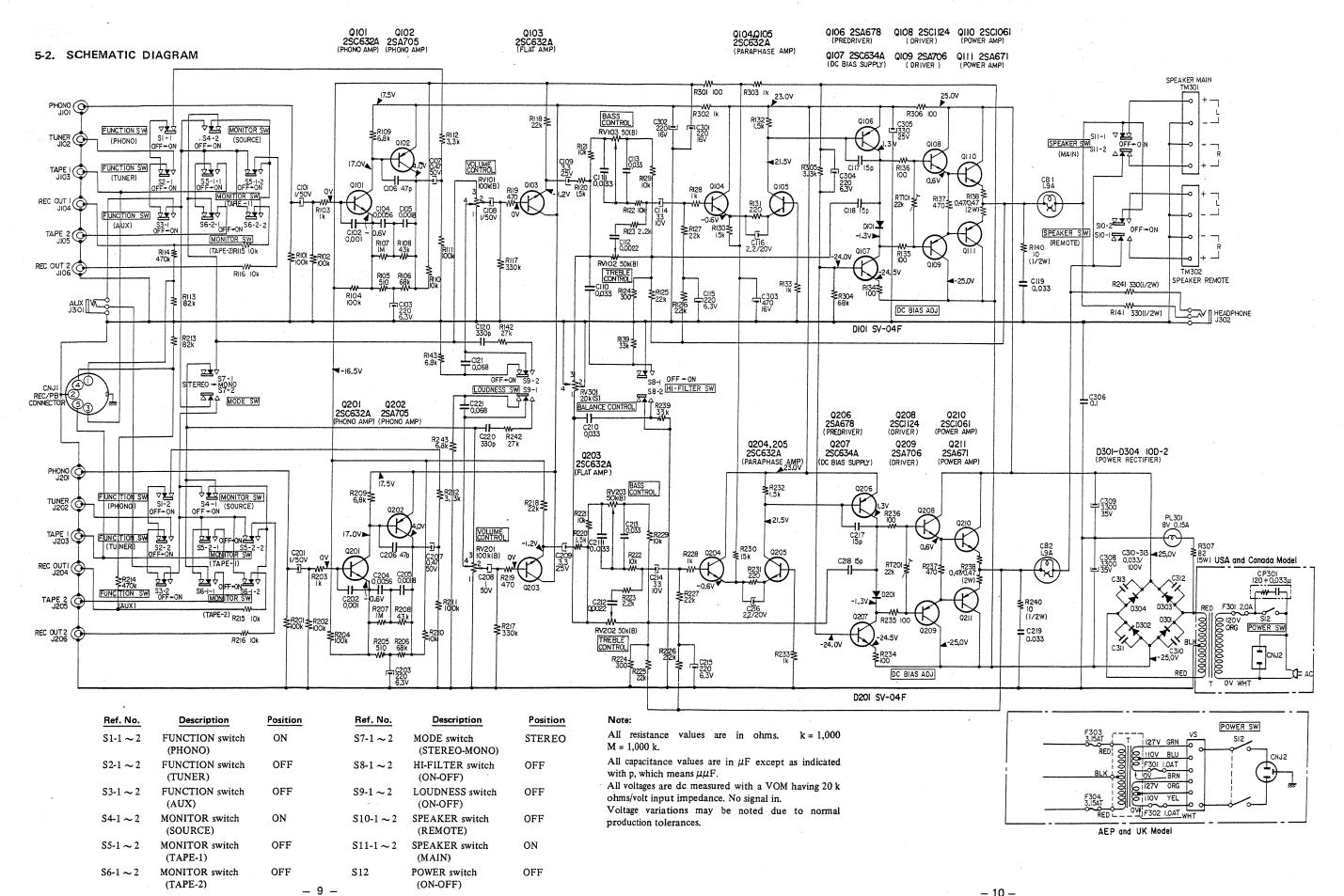
-.7 -.

5-1. MOUNTING DIAGRAM

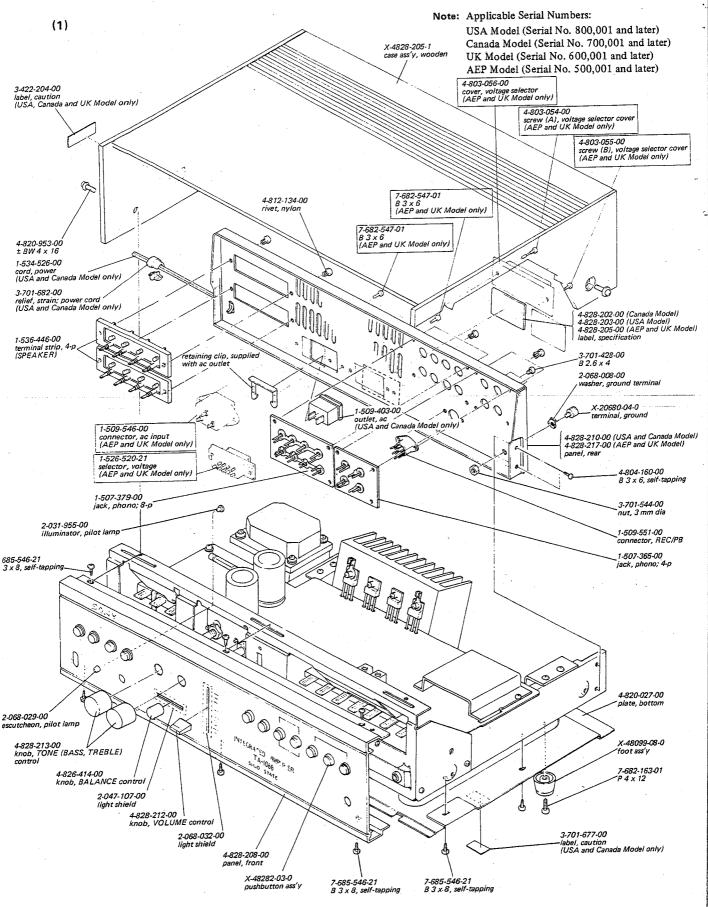


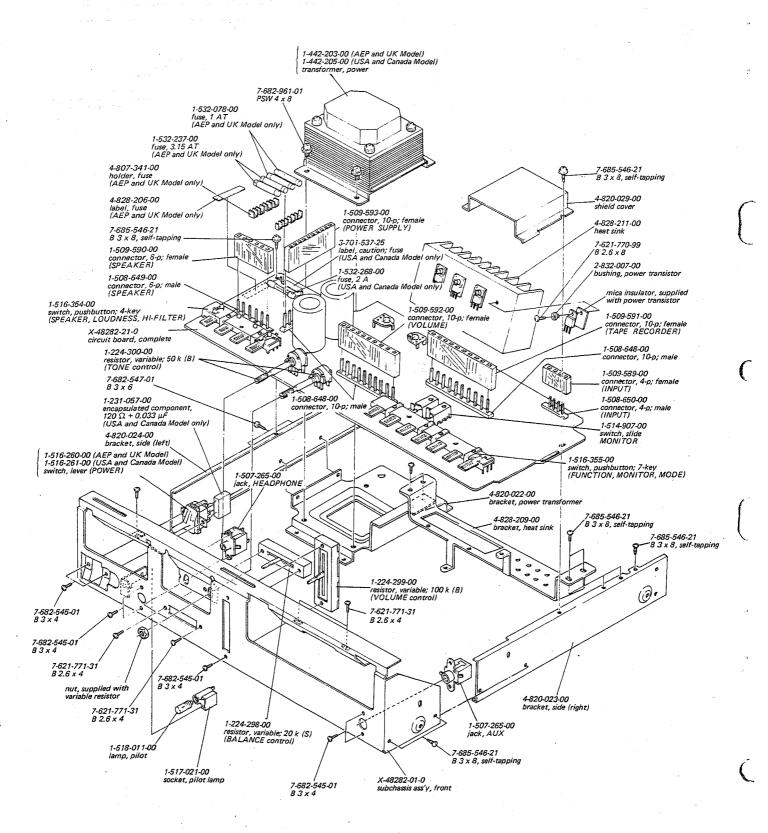
2SC632A 2SC634A

TA-1066 TA-1066



SECTION 6 EXPLODED VIEWS







SECTION 7

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Descrip	tion		Ref. No.	Part No.	1	Descript	ion	
Note	: Applicable Seria	al Numbers:			C112(C212)	1-105-665-12	0.0022	± 10 %		
1,000		rial No. 800,001	and later)		C113(C213)	1-105-679-12	0.033	±10%		
	Canada Model (Serial No. 700,00)1 and later)		C114(C214)	1-121-926-11	33		10.V	elect
10000	UK Model (Seri	al No. 600,001 a	nd later)		C115(C215)	1-121-419-11	220		6.3 V	elect
	AEP Model (Sei	rial No. 500,001	and later)		C116(C216)	1-131-196-11	2.2		20 V	tantalum
	186 187 <u>- 188</u>			1	C117(C217)	1-102-951-11	15 p	±5%	50 V	ceramic
	COMPLETE C	IRCUIT BOAR			C118(C218)	1-102-951-11	15 p	±5%	50 V	ceramic
					C119(C219)	1-105-679-12	0.033	± 10 %		
	X-48282-21-0				C120(C220)	1-102-820-11	330 p	±5%	50 V	ceramic
	SEMICO	NDUCTORS			C121(C221)	1-105-683-12	0.068	± 10 %		
			22252		C301	1-121-421-11	220		16 V	elect
Q101(Q20)	1)	Transistor	2SC632A		C302	1-121-421-11	220		16 V	elect
Q102(Q202	2)	Transistor	2SA705		C303	1-121-426-11	470		16 V	elect
Q103(Q203	3)	Transistor	2SC632A		C304	1-121-419-11	220		6.3 V	elect
Q104(Q204		Transistor	2SC632A		C305	1-121-654-11	330		25 V	elect
Q105(Q205	5)	Transistor	2SC632A		C306	1-105-685-12	0.1	±10%		
Q106(Q20	6)	Transistor	2SA678		C307		******			
Q107(Q20	7)	Transistor	2SC634A		C308	1-123-118-11	3300		35 V	elect
Q108(Q20)	8)	Transistor	2SC1124		C309	1-123-118-11	3300		35 V	elect
Q109(Q209	9)	Transistor	2SA706		C310	1-105-879-12	0.033	± 20 %	100 V	•
Q110(Q21	0) .	Transistor	2SC1061		C311	1-105-879-12	0.033	± 20 %	100 V	
Q111(Q21	1)	Transistor	2SA671		C312	1-105-879-12	0.033	± 20 %	100 V	•
D101(D20	1)	Diode	SV-04F		C313	1-105-879-12	0.033	± 20 %	100 V	
D101(D20	1)	Diodo				RE	SISTORS			
D301		Diode	10D-2							
D302		Diode	10D-2	-	All resistors	are in Ω , $\pm 5\%$	¼ W and	carbon t	ype un	less
D303		Diode	10D-2		otherwise sp			•	•	
D304		Diode	10D-2		·					
	TRANS	FORMERS) 1-244-721-11	100 k 100 k			
	•) 1-244-721-11) 1-244-673-11	100 k			
	(1-442-205-00	Power (USA as	nd Canada Model)				100 k			
T	1-442-203-00	Power (AEP ar		1.) 1-244-721-11	510		÷	
				'		1-244-666-11	68 k			
	CAPA	ACITORS) 1-244-717-11	оок 1 М			
) 1-244-745-11				
All canacit	ors listed here are	50 V, mylar type	unless otherwise) 1-244-712-11	43 k			
specified a	nd in µF except as	s indicated with p	p (p means $\mu\mu$).) 1-244-693-11	6.8 k 10 k			
(elect = ele		_			•) 1-244-697-11				
(01001 - 010	,00201, 020,) 1-244-721-11	100 k			
) 1-244-685-11	3.3 k			
	1) 1-121-912-11	1	50 V elect) 1-244-719-11	82 k			
	2) 1-105-661-12	0.001 ± 10 9) 1-244-737-11	470 k			
	3) 1-121-419-11	220	6.3 V elect		•) 1-244-697-11	10 k			
	4) 1-105-510-12	$0.0056 \pm 5\%$				1-244-697-11	10 k			
	5) 1-105-504-12	$0.0018 \pm 5\%$			-) 1-244-733-11	330 k			
	6) 1-101-880-11	47 p ± 5 %			•) 1-244-705-11	22 k 470			
	7) 1-121-911-11	0.47	50 V elect) 1-244-665-11	1.5 k			
	8) 1-121-912-11	1	50 V elect	1	•) 1-244-677-11	1.3 k 10 k			
	9) 1-121-913-11	3.3	25 V elect		· · · · · ·) 1-244-697-11	10 k			
	0) 1-105-679-12	0.033 ± 10 9) 1-244-697-11	2.2 k			
C111(C21)	1) 1-105-679-12	$0.033 \pm 10\%$	%	1 . 2	K123(K223)	1-244-681-11	4.4 K			



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	1-244-660-11 1-244-705-11	300 22 k		1-516-260-00	Lever (POWER) (AEP and UK Model)
R126(R226) R127(R227)	1-244-705-11 1-244-705-11	22 k 22 k	S12	1-516-261-00	Lever (POWER) (USA and Canada Model)
R129(R229)	1-244-673-11 1-244-697-11	1 k 10 k		MISCE	LLANEOUS
	1-244-701-11 1-244-657-11	15 k 220	CB1, 2	1-532-380-21	Circuit Breaker, 1.9 A
R133(R233)	1-244-677-11 1-244-673-11	1.5 k 1 k	CP301	1-231-057-00	Encapsulated Component, $120 \Omega + 0.033 \mu F$
	1-244-649-11 1-211-522-11	100 100	CNJ1	1-509-551-00	(USA and Canada Model only) Connector, REC/PB
R136(R236)	1-244-649-11 1-244-665-11	100 470		1-509-403-00	Outlet, ac (USA and Canada Model only)
R138(R238)	1-217-359-11 1-244-709-11	0.47 2 W metal 33 k	CNJ2	1-509-546-00	Connector, ac input; 3-p (AEP and UK Model only)
R140(R240)	1-202-525-11 1-202-561-11	10 ½ W composition 330 ½ W composition	F301	1-532-268-00	Fuse, 2 A (USA and Canada Model only)
R142(R242)	1-244-707-11 1-244-693-11	27 k 6.8 k	F302	1-532-078-00	Fuse, 1 AT (AEP and UK Model) Fuse, 1 AT
R301	1-244-649-11	100	F303, 304	1-532-237-00	(AEP and UK Model only) Fuse, 3.15 AT
R302	1-244-673-11 1-244-673-11	1 k			(AEP and UK Model only)
R303 R304	1-244-717-11	68 k	J101, 102 (J201, 202)	}1-507-365-00	Jack, phono; 4-p
R305 R306	1-244-685-11 1-211-522-11	3.3 k 100	J103~J106 (J203~J206)	1-507-379-00	Jack, phono; 8-p
R307	1-217-309-11	82 5 W wirewound	J301, 302 PL301	1-507-265-00 1-518-011-00	Jack, AUX, HEADPHONE Lamp, pilot; 8 V, 0.15 A
RT101 (RT201)	1-222-764-00	22 k, adjustable (dc bias adj.)	TM301, 302 VS	1-536-446-00 1-526-520-21	Terminal Strip, 4-p (SPEAKER) Selector, voltage
RV101 (RV201)	1-224-299-00	100 k (B), variable (VOLUME)		1-508-648-00	(AEP and UK Model only) Connector, 10-p; male
RV102 (RV202)	1-224-300-00	50 k (B), variable (TREBLE)		1-508-649-00 1-508-650-00	Connector, 6-p; male (SPEAKER) Connector, 4-p; male (INPUT)
RV103 (RV203)	1-224-300-00	50 k (B), variable (BASS)		1-509-589-00 1-509-590-00	Connector, 4-p; female (INPUT) Connector, 6-p; female (SPEAKER)
RV301	1-224-298-00	20 k (S), variable (BALANCE)		1-509-591-00	Connector, 10-p; female (TAPE RECORDER)
	SWI	TCHES		1-509-592-00	Connector, 10-p; female (VOLUME)
$\begin{bmatrix} S1 \sim 4 \\ S7 \end{bmatrix}$	1-516-355-00	Pushbutton; 7-key (FUNCTION, MONITOR, MODE)		1-509-593-00	Connector, 10-p; female (POWER SUPPLY)
S5, S6	1-514-907-00	Slide (MONITOR)	· .	1-517-021-00 1-534-526-00	Socket, pilot lamp Cord, power (USA and Canada Model only)
S8 ~ 11	1-516-354-00	Pushbutton; 4-key (SPEAKER, LOUDNESS, HI-FILTER)			

SONY CORPORATION

3H0577-1

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SONY®

Complete Spare Parts List

INTEGRATED STEREO AMPLIFIER

Model TA-1066

AEP MODEL

IMPORTANT

When ordering parts, be sure to furnish the following information:

- 1. Part Number
- 2. Model Number
- 3. Description as contained in this parts list

Due to our use of an electronic data processing system, your orders are processed by the PART NUMBER specified by you.

Please order carefully-wrong part numbers result in wrong parts.

NOTE: Prices are subject to change without notice.

Complete Spare Parts List for TA-1066

(USA, Canada, AEP and UK Model)

September, 1973

Part No.	Description I. MECHANICAL PARTS	l Uni	t Pric
X-20680-04-0	Terminal, ground	\$ 0.06	DM 0.17
X-48099-08-0	Foot Ass'y, rubber	0.04	
X-4828-205-1	Case Ass'y, wooden		22.23
X-48282-01-0	Subchassis Ass'y, front	0.69	
x-48282-03-0	Pushbutton Ass'y	1.10	
2-056-665-00	Clamp, lead wire; 5 mm dia	0.01	0.03
2-056-666-00	Clamp, lead wire; 8 mm dia	0.01	0.03
2-031-955-00	Illuminator, pilot lamp	0.02	0.06
2-047-107-00	Light Shield	0.01	
2-068-008-00	Washer, ground terminal	0.01	0.03
2-068-029-00		0.02	0.06
2-068-032-00	Light Shield	0.01	0.03
2-832-007-00	Bushing, power transistor	0.01	0.03
3-701-428-00	Screw, (+) B 2.6 x 4	0.01	0.03
3-701-537-25	Label, caution; fuse	0.02	0.06
	(USA and Canada Model only)		
3-701-544-00	Nut, flange; 3 mm dia	0.02	0.06
3-701-682-00	Strain Relief, power cord	0.03	0.08
	(USA and Canada Model only)		
3-701-677-00	Label, caution (USA and Canada Model only)	0.01	0.03
4-803-054-00	Screw (A), voltage selector cover	0.02	0.06
	(AEP and UK Model only)		
4-803-055-00	Screw (B), voltage selector cover (AEP and UK Model only)	0.01	0.03
4-803-056-00	Cover, voltage selector(AEP and UK Model only)	0.10	0.28
4-804-160-00	Screw, self-tapping; (+) B 3 x 6	0.01	0.03
4-807-341-00	Holder, fuse (AEP and UK Model only)	0.51	1.44
4-809-246-00	Label, AC 120 V 60 Hz (USA and Canada Model only)	0.02	0.06
4-812-134-00	Rivet, nylon (3.5 x 5.5)	0.01	0.03

Part No.	Description	Unit P	rice
		\$	DM
/ 000 022-00	Product power transformer	0.55	0.99
4-820-022-00	Bracket, side (right)	0.21	0.59
4-820-023-00	Bracket side (left)	0.21	0.59
4-820-024-00	Bracket side (leit)	0.54	1.52
4-820-027-00	Plate, bottom		0.31
4-820-029-00	Shield Cover	0.11	0.51
0.70.00	Screw, (±) BW 4 x 16 Knob, BALANCE control	0.01	0.03
4-820-953-00	Screw, (-) bw 4 x 10	0.10	0.28
4-826-414-00	Knob, BALANCE control	0.08	0.20
4-828-202-00	Label, specification (Canada Model)	0.00	0.20
4-828-203-00	Label, specification (USA Model)	•	0.20
4-828-205-00	Label, specification (AEP and UK Model)-	0.08	0.20
	- 1 1 S - (AER and IN Model only)	0.01	0.03
4-828-206-00	Label, fuse (AEP and UK Model only)	2.93	8.32
4-828-208-00	Panel, front	0.40	1.13
4-828-209-00	Bracket, heat sink	0.90	2.53
4-828-210-00	Panel, rear (USA and Canada Model)		4.10
4-828-211-00	Heat Sink	1.44	4.10
		0.13	0.36
4-828-212-00	Knob, VOLUME control	0.22	0.63
4-828-213-00	Knob, TONE control	0.22	2.67
4-828-217-00	Panel, rear (AEP and UK Model)	0.94	4.07
, , , , , , , , , , , , , , , , , , , ,			

Description

Unit Price

II. HARDWARE

Screws

	All screws are Phillips type (cross recess type unless otherwise specified.)	
	diagoo o diida wada a para a sa	(Pe	r 100)
		\$	DM
7-621-770-99	B 2.6 x 8	0.30	0.84
7-621-771-31	B 2.6 x 4	0.50	1.41
7-682-163-01	P 4 x 12	0.20	0.55
7-682-545-01	B 3 x 4	0.14	0.41
7-682-547-01	B 3 x 6	0.14	0.39
7-682-961-01	PSW 4 x 8	0.95	2.68
7-685-546-21	B 3 x 8, self-tapping	0.32	0.85
, 000			
	Washer		
7-623-108-12	3 mm dia (middle)	0.09	0.27

Ref. No.	Part No.	Description	Unit Price
	III. ELE	CTRICAL PARTS	
	· .	Complete Circuit Board	
	x-48282-21-0	Complete Circuit Board	\$ DM 21.93 61.97
		Semiconductors	
Q101(Q201) Q102(Q202) Q103(Q203) Q104(Q204) Q105(Q205)		Transistor, 2SC632A Transistor, 2SA705 Transistor, 2SC632A Transistor, 2SC632A Transistor, 2SC632A	0.20 0.57 0.22 0.62 0.20 0.57 0.20 0.57 0.20 0.57
Q106(Q206) Q107(Q207) Q108(Q208) Q109(Q209) Q110(Q210) Q111(Q211)		Transistor, 2SA678 Transistor, 2SC634A Transistor, 2SC1124 Transistor, 2SA706 Transistor, 2SC1061 Transistor, 2SA671	0.20 0.57 0.16 0.45 0.57 1.61 0.48 1.36 0.43 1.22 0.59 1.67
D101(D201)		Diode, SV-04F	0.40 1.13
D301 D302 D303 D304		Diode, 10D-2 Diode, 10D-2 Diode, 10D-2 Diode, 10D-2	0.12 0.34 0.12 0.34 0.12 0.34 0.12 0.34
		Transformers	
о Т о Т	1-442-205-00 1-442-203-00	Power (USA and Canada Model) Power (AEP and UK Model)	6.70 18.43
		Capacitors	
	otherwise spec	listed here are 50 V mylar tified and in uF except as ind .(elect = electrolytic)	ype unless icated with
C101(C201) C102(C202) C103(C203)	1-121-912-11 1-105-661-12 1-121-419-11	1 50 V elect	0.02 0.06 0.02 0.06 0.06 0.17
•			o: New parts
USA Model Canada Model AEP Model UK Model		4/9 (TA-1066) (A1-17)	

	Ref. No.	Part No.	Descrip	tion	<u>Uni</u>	t Price
					\$	DM
	C104(C204)	1-105-510-12	0.0056	±5%	۶ 0.04	0.11
	C104(C204)	1-105-504-12	0.0038	±5%	0.04	0.11
	(103(6203)	1-103-304-12	0.0010	±3%	0.04	0.11
	C106(C206)	1-101-880-11	47 p	±5% ceramic	0.02	0.06
	C107(C207)	1-121-911-11	0.47	50 V elect	0.04	0.11
	C108(C208)	1-121-912-11	1	50 V elect	0.04	0.11
	C109(C209)	1-121-913-11	3.3	25 V elect	0.04	0.11
	C110(C210)	1-105-679-12	0.033	±10%	0.03	0.08
	C111(C211)	1-105-679-12	0.033	±10%	0.03	0.08
	C112(C212)	1-105-665-12	0.0022	±10%	0.02	0.06
	C113(C213)	1-105-679-12	0.033	±10%	0.03	0.08
	C114(C214)	1-121-926-11	33	10 V elect	0.05	0.14
	C115(C215)	1-121-419-11	220	6.3 V elect	0.06	0.17
	0113(0213)	1 121 417 11	220	O.S V EIECE	0.00	0.17
	C116(C216)	1-131-196-11	2.2	20 V tantalum-	0.11	0.31
	C117(C217)	1-102-951-11	15 p	±5% 50 V ceramic -	0.02	0.06
	C118(C218)	1-102-951-11	15 p	±5% 50 V ceramic -	0.02	0.06
	C119(C219)	1-105-679-12	0.033	±10%	0.03	0.08
	C120(C220)	1-102-820-11	330 p	±5% 50 V ceramic -	0.03	0.08
	C121(C221)	1-105-683-12	0.068	±10%	0.04	0.11
	C301	1-121-421-11	220	16 V elect	0.08	0.23
	C302	1-121-421-11	220	16 V elect	0.08	0.23
	C303	1-121-426-11	470	16 V elect	0.13	0.37
	C304	1-121-419-11	220	6.3 V elect	0.06	0.17
	C305	1-121-654-11	330	25 V elect	0.12	0.34
	C306	1-105-685-12	0.1	±10%	0.05	0.14
	C307		-	-20%	-	-
2	C308	1-123-118-11	3300	35 V elect	0.70	1.97
	C309	1-123-118-11	3300	35 V elect	0.70	1.97
_	C310	1-105-879-12	0.033	±20% 100V	0.04	0.11
	0310	1 103 0,7 11		-100 100 1	•	0.11
	C311	1-105-879-12	0.033	±20% 100V	0.04	0.11
	C312	1-105-879-12	0.033	±20% 100V	0.04	0.11
	C313	1-105-879-12	0.033	±20% 100V	0.04	0.11

Resistors

All resistors are in $\Omega,\ \pm 5\%,\ 1/4W$ and carbon type unless otherwise indicated.

R101(R201)	1-244-721-11	100 k	that with the case of the health of the case will state any one case case case case and	0.02	0.06
R102(R202)	1-244-721-11	100 k		0.02	0.06
R103(R203)	1-244-673-11	1 k		0.02	0.06

o: New parts

Ref. No.	Part No.	Descript	ion	Unit P	rice
				\$ 11	DM
		100 1	·	0.02	0.06
R104(R2O4)	1-244-721-11	100 k		0.02	0.06
R105(R2O5)	1-244-666-11	510		3132	
		60 I-		0.02	0.06
R106(R2O6)	1-244-717-11	68 k		0.02	0.06
R107(R2O7)	1-244-745-11	1 M		0.02	0.06
R108(R2O8)	1-244-712-11	43 k		0.02	0.06
R109(R2O9)	1-244-693-11	6.8 k		0.02	0.06
R110(R210)	1-244-697-11	10 k		0.0	*
				0.02	0.06
R111(R211)	1-244-721-11	100 k		0.02	0.06
R112(R212)	1-244-685-11	3.3 k		0.02	0.06
R113(R213)	1-244-719-11	82 k		0.02	0.06
R114(R214)	1-244-737-11	470 k		0.02	0.06
R115(R215)	1-244-697-11	10 k		0.02	0.00
	•			0.02	0.06
R116(R216)	1-244-697-11	10 k		0.02	0.06
R117(R217)	1-244-733-11	330 k		0.02	0.06
R118(R218)	1-244-705-11	22 k		0.02	0.06
R119(R219)	1-244-665-11	470			0.06
R120(R220)	1-244-677-11	1.5 k		0.02	0.06
1020(100-1)				0.00	0.06
R121(R221)	1-244-697-11	10 k		0.02	0.06
R122(R222)	1-244-697-11	10 k		0.02	0.06
R123(R223)	1-244-681-11	2.2 k		0.02	0.06
R124(R224)	1-244-660-11	300		0.02	0.06
R125(R225)	1-244-705-11	22 k		0.02	0.06
KIZJ (KZZJ)					
R126(R226)	1-244-705-11	22 k		0.02	0.06
R120(R220) R127(R227)	1-244-705-11	22 k		0.02	0.06
R128(R228)	1-244-673-11	1 k		0.02	0.06
	1-244-697-11	10 k		0.02	0.06
R129(R229)	1-244-701-11	15 k		0.02	0.06
R130(R230)	1-244-701 11				
m101(D001)	1-244-657-11	220		0.02	0.06
R131(R231)	1-244-677-11	1.5 k		0.02	0.06
R132(R232)	1-244-673-11	1 k		0.02	0.06
R133(R233)	1-244-649-11	100		0.02	0.06
R134(R234)		100		0.02	0.06
R135(R235)	1-211-522-11	100			
	1 0// 6/0 11	100		0.02	0.06
R136(R236)	1-244-649-11			0.02	0.06
R137(R237)	1-244-665-11	470 0.47	2 W metal	0.07	0.20
o R138(R238)	1-217-359-11	0.47	Z W INCLAI	0.02	0.06
R139(R239)	1-244-709-11	33 k	1/2 W composition	0.02	
R140(R240)	1-202-525-11	10	1/2 M Combosition	0.02	- ,
		220	1/2 W composition		
R141(R241)	1-202-561-11	330	1/2 M Combostcron		

o: New parts

	Ref. No.	Part No.	Description	Unit	Price
	R142(R242) R143(R243)	1-244-707-11	27 k 6.8 k	\$ 0.02 0.02	DM 0.06 0.06
	R301 R302 R303 R304 R305	1-244-649-11 1-244-673-11 1-244-673-11 1-244-717-11 1-244-685-11	100	0.02 0.02 0.02 0.02 0.02	0.06 0.06 0.06 0.06 0.06
	R306 R307	1-211-522-11 1-217-309-11	100 82 5 W wire wound	0.02	0.06 0.25
	RT101(RT201)	1-222-764-00	22 k, adjustable (dc bias adj)	0.06	0.17
0	RV101(RV201)	1-224-299-00	100 k (B), variable (VOLUME)	0.67	1.90
	RV102(RV202) RV103(RV203) RV301		50 k (B), variable (TREBLE)- 50 k (B), variable (BASS) 20 k (S), variable (BALANCE)	0.47 0.47 0.35	1.32 1.32 0.98
			<u>Switches</u>		
0	S1∿S4, S7	1-516-355-00	Pushbutton, 7-key (FUNCTION, MONITOR, MODE)	1.66	4.83
0	S5, 6 S8\S11	1-514-907-00 1-516-354-00	Slide (MONITOR) Pushbutton, 4-key (HI-FILTER,LOUDNESS,SPEAKER)	0.25 1.36	0.70 3.85
	S12	(1-516-260-00	Lever (POWER)(AEP and UK Model)	0.45	
		(1-516-261-00	Lever (POWER) (USA and Canada Model)	0.82	
	4		Miscellaneous		
	CB1, 2 CP301	1-532-380-21 1-231-057-00	Circuit Braker, 1.9 A Encapsulated Component, $120 \Omega + 0.033 \mu F$	0.55	1.55
	CNJ1 CNJ2	1-509-551-00 (1-509-403-00	(USA and Canada Model only) Connector, REC/PB Outlet, ac	0.19	0.54
		(1-509-546-00	(USA and Canada Model only) Connector, ac input; 3-p (AEP and UK Model only)	0.47	1.32

o: New parts

Ref. No.	Part No.	<u>Description</u>	Unit P	rice
•			\$	DM
F301	(1-532-268-00	Fuse, 2 A (USA and Canada Model only)	0.16	-
	(1-532-078-00	Fuse, 1 AT (AEP and UK Model)	0.06	- ·
F302	1-532-078-00	Fuse, 1 AT (AEP and UK Model only)	0.06	_
F303, 304	1-532-237-00	Fuse, 3.15 AT (AEP and UK Model only)	0.13	-
J101, 102 (J201,202)	1-507-365-00	Jack, phono; 4-p	0.31	0.87
J103∿J106 (J203∿J206)	1-507-379-00	Jack, phono; 8-p	0.56	1.58
J301, 302	1-507-265-00	Jack, AUX/HEADPHONE	0.16	0.45
PL301	1-518-011-00	Lamp, pilot; 8V/0.15A	0.04	
o TM301,302	1-536-446-00	Terminal Strip, 4-p (SPEAKER)	0.26	
VS	1-526-520-21	Selector, voltage (AEP and UK Model only)	0.11	0.31
0	1-508-648-00	Connector, 10-p; male	0.02	0.06
0	1-508-649-00	Connector, 6-p; male (SPEAKER)	0.03	0.08
0	1-508-650-00	Connector, 4-p; male (INPUT)	0.05	0.14
0	1-509-589-00	Connector, 4-p; female (INPUT)	0.16	0.45
0	1-509-590-00	Connector, 6-p, female (SPEAKER)	0.21	0.59
0	1-509-591-00	Connector, 10-p; female (TAPE RECORDER)	0.41	1.18
0	1-509-592-00	Connector, 10-p, female (VOLUME)	0.34	0.96
0	1-509-593-00	Connector, 10-p; female (POWER SUPPLY)	0.39	1.10
	1-517-021-00	Socket, pilot lamp	0.05	0.14
•	1-534-526-00	Cord, power	0.35	_
		(USA and Canada Model only)		

o: New parts

			•
Part No.	Description	Unit	Price
•	IV. ACCESSORIES AND PACKING MATERIALS		
X-37010-29-0 1-534-819-00 2-068-445-00 3-701-020-00 3-780-186-11	Card Ass'y, warranty (USA Model only) Cord, power (UK Model only) Cushion, upper Bag, polyethylene; instruction manual Manual, instruction (Canada and AEP Model)	\$ 0.06 0.12 0.01 0.43	DM - 0.34 0.03 1.21
3-780-186-21 3-780-186-81 3-793-105-00 3-793-107-00 3-793-520-00	Manual, instruction (USA Model) Manual, instruction (UK Model) List, warranty station(Canada Model only) Card, warranty (Canada Model) Card, warranty (UK Model)	- 0.06 0.06	40 40 40 40
3-793-647-00 4-802-201-00	Diagram, schematicBag, polyethylene; warranty card (Canada and UK Model only)	0.06 0.01	0.17
4-818-924-00 4-820-017-00 4-828-220-00	Bag, polyethylene; unit	0.04 0.13 0.70	0.11 0.37 1.97

Note: Applicable Serial Numbers;

USA Model	800,001	and	later
Canada Model	700,001	and	later
AEP Model	900,001	and	later
UK Model	400,001	and	later

